SOP Number: QAQC003.00

Previous SOP: none

Page 1 of 7

STANDARD OPERATING PROCEDURE **Sample Tracking Procedures**

KEY WORDS

Sample Tracking,	Sample Track	ing Datab	ase, Chain-of	custody, S	ample
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SOP Number: QAQC003.00 Previous SOP: none

Page 2 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

1.0 INTRODUCTION

1.1 Purpose

This Standard Operating Procedure (SOP) discusses sample check-in and check-out procedures; the recording of chemistry data; sample disposal procedures; and the Sample Tracking Database.

1.2 Definitions

A **sample** is any environmental substance collected and analyzed for chemical content.

Chain-of-custody is a record describing in detail all pertinent information specific to each sample, including dates and signatures of persons handling the sample.

Sample Tracking Database is a relational database designed in Microsoft Access to trace a sample from the time it is checked into the storage facility until the sample is submitted to a laboratory for analysis or disposed of after a study is completed.

2.0 SAMPLE TRACKING

2.1 Sample Tracking Codes

Sample tracking codes are abbreviations for fields in the database that refer to specific information about each sample. The study number in combination with the sample number is identified as the key field and all information specific to the sample is referenced by the following codes back to the key field.

SAMPLE CODES:

P= Primary	R= Replicate	B= Backup	FB= Field Blank
* = Split	S= Spike	BG= Background	BM= Blank Matrix

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SOP Number: QAQC003.00

Previous SOP: none

Page 3 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

STORAGE LOCATION CODES refer to the storage location of each sample at the storage facility.

F= Fresno R= Refrigerator SRI 0= Sacramento Refrigerator #I 0

R= Riverside F= Freezer SFO7= Sacramento Freezer #07

S= Sacramento A= Air Temp. D= Deep Freeze

W= Warehouse L= Lab

SAMPLE TYPE CODES refer to the sample matrix collected.

FRU= Fruit DVEG= Dislodgeable Vegetation TWG= Twigs SOI= Soil SSS= Stainless Steel Sheets EXT= Extract WAT= Water LOV= Lo-Vol STD= Standard VEG= Vegetation HIV= Hi-Vol SUR= Surrogate

SED= Sediment FILT= Filtrate TUR= Turf
TAN= Tank KIM= Kimbie SAN= Sand
AIR= Air TRP= Air Cassettes BRA= Branch

SAMPLE CONTAINER CODES refer to the type of container each sample is placed in during storage.

QMSJ= Quart Mason Jar

1 LAMBR= 1 Liter Amber Bottle
PMSJ= Pint Mason Jar

HPMSJR= Half Pint Mason Jar

PBAG= Plastic Bag HIVJAR= Hi-Vol Jar

FOIL= Aluminum Sheets

CAS= Air Cassettes

1 LPC= 1 Liter Polycarb. Bottle

VIAL= Small Standard Vial

500mLPC= 500mL Polycarb. Container 250mLAMBR= 250mL Amber Bottle 500mLAMBR= 500mL Amber Bottle

500mLHDPP= 500mL High Density Polyprop.

SOP Number: QAQC003.00 Previous SOP: none Page 4 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

LABORATORY CODES refer to the specific laboratory each sample is shipped to for analysis.

QUAN= Quanterra Laboratory CDFA:
ATL= Aquatic Toxicology Lab CDFG
FMC= FMC Corporation ALTA=
ZEN= Zeneca Ag Products VAL=
APPL= Ag and Priority Pollut Labs
NCL= North Coast Labs UCD=
FRES= Fresno Soils Lab WSAC

CDFA= CA Dept. of Food & Agr. CDFG= CA Dept. of Fish & Game ALTA= ALTA Analytical Laboratory VAL= Valent Dublin Laboratory MOR= Morse Laboratories Inc. UCD= University California Davis WSAC= W. Sacramento Soils Lab

ANALYSIS TYPE refers to the type of test method to be performed on each sample.

2.2 Sample Check-in Procedures

All samples received at the storagefacility are immediately put in a refrigerator or freezer depending on the matrix specific storage requirements. The field crew fills out a two-part check-in sheet (Figure A) using the sample tracking codes listed in section 2.1.

SOP Number: QAQC003.00 Previous SOP: none Page 5 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

The check-in sheet must be complete in order to properly track environmental samples. The following is a description of each key component of the check-in sheet.

Project ID: The study number or name.

Date Received: The date the sample was received from the field crew. **Checked-in by:** The initials of the person who fills out the check-in sheet. **Remarks:** List any additional or neccessary information regarding the samples listed on the check-in sheet.

EHAP Sample No.: The number assigned to a labeled sampling container.

Sample Code: List sample code (Section 2.1 for codes). **Date Sample Collected:** Note the sample collection date.

Sample Type: Specify the type of sample collected (Section 2.1).

Container Type: What the sample is stored in (Section 2.1).

Analysis Type: The type of analysis the sample is intended for (Section 2.1).

Analysis: List the type of chemical the sample is to be analyzed for. **Comment:** Space provided for additional information regarding individual samples.

Date/Logged in by: The date and person who enters information into the Sample Tracking Database.

Storage Location: List where the sample is being stored (Section 2.1).

After the check-in sheet is completed, each field sample is compared against it's corresponding chain-of-custody (COC), then signed and dated by the sample custodian receiving the sample. The white and yellow copies of the each COC is removed and sent with it's correpsonding field sample to the laboratory. The pink copy is used to enter the information into the Sample Tracking Database. The pink copy is then sent to the Project Leader. Any remaining samples held at the storage facility are stored under thieir required storage conditions with the white and yellow copies of their corresponding COC's.

SOP Number: QAQC003.00 Previous SOP: none Page 6 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

2.3 Sample Check-out Procedures

A two-part check-out sheet is filled out for any sample leaving the storage facility (Figure B). The check-out sheet must be complete in order to properly track environmental samples leaving the storage facility.

The check-out sheet is similar to the check-in sheet but differs in three components.

Date Delivered: The date the sample is taken to the laboratory.

Checked-out by: The initials of the person filling out and transporting the sample to the laboratory.

Laboratory Delivering to: Specify the destination code for the sample scheduled for analysis (Section 2.1).

A pink copy of the check-out sheet, and white and yellow copy of each COC are sealed in a plastic bag and accompany samples transported to the laboratory. The samples are then placed in ice chests and cooled to their required temperatures using blue ice, wet ice or dry ice. Ice chests are sealed with tape and labelled with the date and inititals of the sample custodian using a permanent black marker. The white copy of the check-out sheet is retained by the QA/QC officer and is also used to enter information into the Sample Tracking Database.

2.4 Chemistry Results

After results are received from the laboratory, the laboratory sample number, extraction and analysis date for each sample are entered into the Sample Tracking Database using the appropriate Microsoft Access guery.

SOP Number: QAQC003.00

Previous SOP: none

Page 7 of 7

STANDARD OPERATING PROCEDURE Sample Tracking Procedures

2.5 Sample Disposal

After each study is completed and with the approval of the Project Leader, all remaining samples stored in the storage facility may be disposed of by the sample custodian. A two-part Sample Disposal Sheet is completed and includes information similar to the check-out sheet (Figure C). This information is then entered into the Sample Tracking Database using the appropriate Microsoft Access query. The white copy of the Sample Disposal Sheet is retained by the QA/QC officer while the yellow copy is used to enter the information into the database.

3.0 Sample Tracking Database

All the information reported on the check-in, check-out, chemistry result, and sample disposal sheets is entered in the Sample Tracking Database using tables in Microsoft Access. Queries, forms and reports are designed specifically for each study to access fields for summarizing data.

3.1 Computer Generated Backups

Daily and weekly backups are conducted using Norton software and a tape drive. Diskettes are also used as a source for daily backup of individual study files.

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SAMPLE CHECK-IN SHEET 30-007 (4/90)

30-007 (4/9	0)						
				Today's	s Date: _		_
Project ID (Study no.):				Logged	in by: ata entry p	ongon)	_
Date Receiv	ed:			Storage	e location: on outside	of storag	 ,
Checked- in b	y:			(BCC #	on oatside	of Storag	,e ,
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EHAP Sample No.	Sample	Date Sample Collected	Sample				Comment
<u>bampie no</u> .	<u>oode</u>	001100000	<u> 1700</u>	<u> </u>	<u>. , , , , , , , , , , , , , , , , , , ,</u>	Andryoto	COMMETTE
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SAMPLE CHECK-OUT SHEET 30-008 (4/90)

				Today's	Date:		_		
Project ID (Study no.):				Logged (kev da	Logged out by: (key data entry person)				
Date Deliv	ered:			Storage	location:				
Checked-out	t by:			(see #	on outside	of storag	corage)		
Laboratory	Deliverin	ng to:	_						
======= Remarks:	== =====:	=======================================	======	=======================================	========	=======================================	=======		
EHAP		Date Sample			Analysis				
Sample No.	code	Collected	Туре	Type	<u>Type</u>	Analysis	Comment		

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Today's	Date:	

Sample Disposal Sheet

Project ID (Study no.):			Dis_1	Disposed by:					
Date Disposed:				Storage location:					
Remarks:	========	=========	======	========	=======	=========		=	
EHAP	Sample Code	EHAP Sample #	Sample	EHAP	Sample	EHAP	Sample	==	